



**CAT NETWORK-TESTER TP II**

**68856**



**CAT NETWORK-TESTER TP III**

**93010**



**CAT NETWORK-TESTER**

**TP/BNC/USB**

**68857**



**CAT NETWORK-TESTER**

**TP/BNC/USB/Firewire**

**68858**



## 4 Notes on Safety:

**ATTENTION! Only skilled electricians may assemble and disassemble the housing of the product. There is a risk of electric shock and short circuit!**



- Your product is not a toy and is not meant for children, because it contains small parts which can be swallowed and injured when used inappropriately!
- Install and store the product and its accessories in a way persons cannot be injured, or objects not be damaged for example by dropping or stumbling.
- Remove or store the packing materials well, because children may cut themselves on them while playing. Furthermore, there is a risk of swallowing and inhaling of incidentals and insulating material.
- Also read the manual of your devices, to be tested, for checking the compatibility and fitting of the connectors to the product and the other way round.
- A defective device may not be put into operation, but must be disconnected from mains and protected against further use. Repairing, such as assembling and disassembling the housing is only allowed to skilled professionals. By repairing it yourself you will lose all warranties and there is a risk of electric shock and short circuit.
- Drive the product only with 9 V DC battery block.
- Avoid places with high temperatures, humidity, or places which might come into contact with water.
- Do not place things on the device.
- Mind and follow the terms of law and health care for using the device in industry.
- Never expose the product to high mechanical pressure.
- Do not modify or change the product or its accessories! Also mind chapter "warranty and liability".
- Connect all cables softly and slowly to the product to avoid damages.
- Do not use damaged parts.
- The device may only be installed and used in dry interior rooms.
- Never use the device with live cables!
- Remove the battery from the device, when it is not used for longer time.

## 5 Removing the Battery:

1. Put off the battery case by sliding it towards the arrow.
2. Connect a 9 V battery block (6LR61) to the connection cable. A battery is not included.
3. Close the battery case. Mind not pinching the cable during closing the battery case for correct function.

## 6 Operating Elements:

### 1. ON/OFF SWITCH:

*model 68856 and 93010:* slide switch ON/OFF

*model 68857 and 68858:* round button - in the middle of the housing

### 2. TEST KEY:

*model 93010:* The testing function is only activated by pressed test key.

### 3. USING THE MAIN DEVICE AND THE EXTERNAL RECEIVER:

*model 93010:* the external receiver is bulk.

*models 68856, 68857 and 68858:* The external receiver can be fixed to the main device by sliding it in.

Use the external receiver for extensively installed and long cables. It can be connected to a wall plate or patch panel during measuring at the appropriate testing place.

### 4. CONNECTORS:

*models 68856 and 93010:* modular sockets



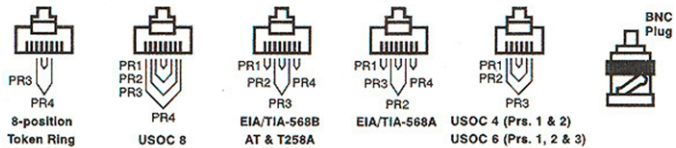
*model 68857:* RJ45, RJ11, USB socket



*model 68858:* RJ45, RJ11, IEEE 1394, USB socket



Check 10Base-T, 10Base-2 cables, RJ45, RJ11 cables, 258A, as well as TIA-568A/568B and Token Ring cables.



## 7 Operating:

### 1. BULK CABLES:

*all models:* Check bulk cables by using the main device.

Use adaptors for special cables.

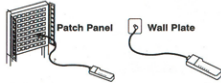
*The models 93010, 68857 and 68858 can also test BNC cables by using the included adaptors.*



### 2. PATCHPANELS / WALL PLATES / other CABLES:

*all models:* Use the external receiver like described on page 11.





3. MEASURING:

model 93010:

1. Connect a fitting cable to the device.
2. Switch on the device.
3. Select between AUTO- and MANUAL-mode. AUTO-mode tests all twisted pairs independently. Use the MANUAL-mode to check each pair separately.

models 68856, 68857 and 68858:

1. Connect a fitting cable to the device.
2. Switch on the device.
3. The product shows all characteristics of the connected cable automatically.

model 68856:

situation 1: Pin 2 is configured 1:1 - cable ok



situation 2: Pin 2 is not connected. - cable defect



situation 3: Pin 2 and 3 are short-circuited. - cable defect



situation 4: Pin 2 is connected to Pin 6 - crossover cable or defect



BNC TEST:

BNC core  
BNC screening



FUNCTIONS:

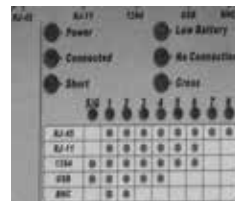
model 68857:

- S flashes on for correct connected screening
- C/1-8 LEDs flash on for correct wiring
- SHORT Short-circuit
- CONNECTED pins connected 1:1 / BNC 25 Ohms
- NON-PARALLEL interchanged leads / BNC 50 Ohms
- NO CONNECTION cable defect / no termination
- BATTERY GOOD battery full
- BATTERY LOW battery empty → remove it



model 68858:

- POWER device is switched on
- LOW BATTERY battery empty → remove it
- CONNECTED pins connected 1:1
- NO CONNECTION cable defect
- SHORT Short-circuit
- CROSS interchanged lead / crossover cable



Matrix LEDs of the specific cable types flash on

## 8 Care, Maintenance, Storage and Transport:



**ATTENTION! There is a risk of electric shock and short circuit!**

- Open only the battery case for removing the battery (9V battery block - 6LR61).
- Always disconnect all cables at first!
- Use a dry linen cloth to clean your product, or use a slightly moist cloth for heavy stains. Look out for live cables of your device during cleaning! Do not use any cleaning supplies and avoid liquid entry to the device.
- Avoid places with high temperatures, humidity, or places which can become wet, also during care, maintenance, storage, and transport.
- Mind the notes on safety also regarding care, maintenance, storage and transport.
- Keep the product away from children!
- Reposit the original packaging as protection from dust and humidity for transporting.
- Follow the safety symbols on the packing during transport.

## 9 Troubleshooting:

Problem	Help
The network tester does not work.	<ul style="list-style-type: none"> <li>- Use the right battery with right polarity (9 V Block, 6LR61).</li> <li>- Remove the battery like described in chapter 5</li> </ul>
Which pins have to be connected?	Read chapter 6 and 7.
opposite cable connection	<ul style="list-style-type: none"> <li>- cable could be a crossovercable, mostly used between 2 computers</li> <li>- Use a 1:1 wired cable to connect a computer to the router.</li> </ul>
other questions	Contact your dealer.

## 10 Warranty and Liability:

- The producer grants a 2 years warranty to a new device.
- As the manufacturer has no influence on installation, warranty of the product only applies to the product.
- If any fault or damage is detected on your device, please contact your dealer and provide your sales slip or invoice as evidence of the purchase, if necessary. Your dealer will repair the fault either on site, or send the device to the manufacturer. You make the work of our technicians considerably easier, describing possible faults in detail – only then you can be assured that faults, occurring only rarely, will be found and repaired with certainty! If your dealer cannot be contacted, you can also contact us directly.
- The manufacturer is not liable for damages to persons or property caused by improper installation or operation not described in this guide. This includes, among others, any alteration and modification of the product and its accessories.
- Any use other than described in this user manual is not permitted, and causes loss of

warranty, loss of guarantee, and non-liability.


- We reserve our right for misprints and changes of the device, packing, or user manual.

## 11 Specifications:

model	68856	93010	68857	68858
operating voltage	9 V DC	9 V DC	9 V DC	9 V DC
cable types	RJ11, 12, 45	RJ11, 12, 45, BNC	RJ11, 12, 45, BNC, USB	RJ11, 12, 45, BNC, USB IEEE 1394
other standards	Token Ring, 10Base-T, 10Base-2, 258A, TIA-568A/568B			
Dimensions in mm	105x100x29	80x57x23   80x25x23	160x85x26	220x100x26
Net- / Grossweight in kg	0.15 / 0.18	0.195 / 0.25	0.195 / 0.25	0.25 / 0.31



## 12 Note on Waste Disposal:


 According to the European WEEE directive, electrical and electronic equipment must not be disposed with consumers waste. Its components must be recycled or disposed apart from each other. Otherwise contaminative and hazardous substances can pollute our environment.

As a consumer, you are committed by law to dispose electrical and electronic devices to the producer, the dealer, or public collecting points at the end of the devices lifetime for free. Particulars are regulated in national right. The symbol on the product, in the user's manual, or at the packaging alludes to these terms. With this kind of waste separation, application, and waste disposal of used devices you achieve an important share to environmental protection.

WEEE Directive: 2012/19/EU

WEEE No: 82898622

## 13 CE-Declaration:

 With the CE sign Goobay®, a registered trademark of the Wentronic GmbH ensures, that the product is conformed to the basic standards and directives.



Revision Date: 2014-03-31  
Version 5

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